

Claims

1. An igniter device comprising a resistance heating element, gunpowder to be ignited by heat generation of the resistance heating element, electrode
5 pins connected to the resistance heating element, and a plug for holding the electrode pins, and sealing a contact interface between the electrode pins and the plug, wherein material of the plug is a thermosetting resin.
2. The igniter device according to Claim 1, wherein the thermosetting resin is exclusive of unsaturated polyester.
- 10 3. The igniter device according to Claim 1, wherein the thermosetting resin is epoxy resin composition.
4. The igniter device according to Claim 3, wherein the epoxy resin composition comprises an epoxy resin and a curing agent.
5. The igniter device according to Claim 3, wherein the epoxy resin
15 composition contains 30-95weight% filler of the total epoxy resin composition.
6. The igniter device according to Claim 5, wherein the filler comprises at least one of molten silica, crystallized silica, aluminum oxide, and calcium carbonate
- 20 7. The igniter device according to Claim 3, wherein the epoxy resin comprises at least one of bisphenol type epoxy resin, novolak type epoxy resin, biphenyl type epoxy resin, naphthalene type epoxy resin, alicyclic epoxy resin, and amines epoxy resin.
8. The igniter device according to Claim 4, wherein the curing agent
25 comprises at least one of phenol novolak resin, acid anhydride, and amines.

9. The igniter device according to Claim 4, wherein the epoxy resin composition comprises a curing accelerator.

10. The igniter device according to Claim 4, wherein the plug has, at a portion thereof on the electrode pin side, a small diameter stepped portion.

11. A gas generator comprising a cup packed with gas generant to generate gas by burning, an igniter device arranged in an interior of the cup, and a holder for holding the igniter device and the cup,

the igniter device comprising a resistance heating element, gunpowder to be ignited by heat generation of the resistance heating element, electrode pins connected to the resistance heating element, and a plug for holding the electrode pins,

wherein material of the plug is a thermosetting resin, and

wherein the holder has insertion holes for allowing the electrode pins to extend through them, respectively.

12. The gas generator according to Claim 11, wherein root portions of the electrode pins extending from the plug are sheathed with skirt portions formed to be integral with the plug and the skirt portions are inserted in the insertion holes.

13. The gas generator according to Claim 11, wherein the plug has, at a portion thereof on the electrode pin side, a small diameter stepped portion.

14. The gas generator according to Claim 11, wherein the thermosetting resin is exclusive of unsaturated polyester.

15. The gas generator according to Claim 11, wherein the thermosetting resin is epoxy resin composition.

16. The gas generator according to Claim 15, wherein the epoxy resin

composition comprises an epoxy resin and a curing agent.

17. The gas generator according to Claim 15, wherein the epoxy resin composition contains 30-95weight% filler of the total epoxy resin composition.

5 18. The gas generator according to Claim 17, wherein the filler comprises at least one of molten silica, crystallized silica, aluminum oxide, and calcium carbonate

19. The gas generator according to Claim 15, wherein the epoxy resin comprises at least one of bisphenol type epoxy resin, novolak type epoxy
10 resin, biphenyl type epoxy resin, naphthalene type epoxy resin, alicyclic epoxy resin, and amines epoxy resin.

20. The gas generator according to Claim 16, wherein the curing agent comprises at least one of phenol novolak resin, acid anhydride, and amines.

21. The gas generator according to Claim 15, wherein the epoxy resin
15 composition comprises a curing accelerator.

22. The gas generator according to Claim 11, wherein a cross-section area of the insertion hole is more than once to ten times or less a cross-section area of the electrode pin.

23. The gas generator according to Claim 13, which comprises a sealing
20 material, arranged near the stepped portion, for sealing a space between the holder and the plug.